

3Com® OfficeConnect® Cable Modem External

Two-way-over-cable



Key Benefits

Software upgradable to DOCSIS 1.1. Provides interoperability and confidence as your network grows. As new features become available the headend will automatically update the cable modem without user intervention.

Ethernet and USB connectivity. You choose the connection that fits your needs.

Supports tiered service levels. Lets you create multiple service options to expand market and revenue opportunities.

User friendly. Easy to install, easy to use.

Local and remote diagnostic capability. Configuration and Mbps monitoring is permitted from a management equipped station with SNMP server.

Part of the award-winning OfficeConnect family. As business requirements change, add other functions such as high-speed networking, Internet access, remote access, or print-sharing capabilities with the OfficeConnect family of products.

Fast. Reliable. The new 3Com® OfficeConnect® Cable Modem External defines the next generation of Internet access and sets the high-speed standard with the award-winning brand for small business. It delivers more ways to stay connected, with both Ethernet and USB connectors built in. And this two-way-over-cable modem screams at up to 42 Mbps downstream throughput and up to 10 Mbps upstream.* It's a powerful choice for your network and your subscribers.

The OfficeConnect external cable modem is part of 3Com's complete cable access system for integrated cable-return broadband communications in one powerful platform – and part of the OfficeConnect family of easy-to-use products for small office and home office users. The stackable design allows for the addition of hubs to connect multiple PCs, Internet firewall/VPN solutions, and new MTA devices to support Internet Telephony.

DOCSIS compliance provides interoperability and peace of mind as your network grows. And because this modem is designed for tiered service levels, including Committed Information Rate, it lets you create multiple service options to expand your market and revenue opportunities.

Built-in security and protocol filtering protect the privacy of your users' data. The modem supports baseline privacy with a 56-bit security key.

The external cable modem features a rugged, proven design and patented convection cooling system for a long, trouble-free life. A 10BASE-T Ethernet interface plus USB capability make it compatible with virtually any network-ready computer.

* Actual speeds will vary depending on several factors including, but not limited to: computer hardware, applications type of server, number of connections to server, Internet router(s) availability, network traffic and services offered by your cable operator or broadband service provider.

External

Blows 56K away!

Specifications

System and Communications Features

- Supports multiple standard network protocols including IP, IPX, AppleTalk and NETBEUI
- Supports any application that communicates with the underlying supported TCP or UDP layer

Physical Interfaces

- Computer: RJ-45, 10BASE-T
- CATV: Female F-connector
- Power: DC input from external power supply (included)
- LEDs: Power, Cable status, PC Link status, PC Link activity, Cable activity, Operator-defined multi-function (FCN)
- USB Interface

RF Specifications: Downstream

- Frequency range: 91-857 MHz
- Channel bandwidth: 6 MHz
- Modulation: 64 QAM or 256 QAM
- Symbol rate: 5.056 Msym/sec or 5.361 Msym/sec

- Information bit rate:

| | |
|------------|---------|
| 30.34 Mbps | 64 QAM |
| 42.88 Mbps | 256 QAM |

- Receiver operating range: +15 to -15 dBmV
- Nominal input level: +0 dBmV
- Impedance: 75 Ohms nominal
- Error correction: ITU J.83-B per MCNS-RFI
- Performance: Error-corrected Bit Error Rate (BER) of 10⁻⁸ with 23.5 dB SNR using 64 QAM, 10⁻⁸ with 30.0 dB SNR using 256 QAM

RF Specifications: Upstream

- Frequency range: 5-42 MHz
- Channel bandwidth: 200-3200 KHz
- Modulation: QPSK or 16 QAM
- Symbol rates: 160-2560 Ksym/sec
- Information bit rate:

| | |
|------------|--------|
| 10.24 Mbps | 16 QAM |
| 5.12 Mbps | QPSK |

- Transmitter operating range: +8 to +58 dBmV
- Impedance: 75 Ohms nominal
- Error correction: Reed-Solomon
- Performance: Error-corrected Bit Error Rate (BER) of 10⁻⁸ with 16 dB SNR

Standards Compliance

- Emissions
 - FCC Part 15, Class B
 - EU EMC Directive
 - VCCI
- Safety
 - UL
 - CSA
 - TUV
- DOCSIS
 - SP-CMCI
 - SP-CMTRI
 - SP-OSSI
 - SP-RFI
 - SP-BPI

Dimensions

- Width: 19.7 cm (7.755 in)
- Height: 6 cm (2.3622 in)
- Length: 23 cm (9.05 in)
- Weight
 - Modem 2.0 lb. (0.9 kg)
 - Power adapter 1.0 lb. (0.45 kg)

Package Contents

- 3Com OfficeConnect external cable modem
- Power adapter
- USB cable 3 ft. (1 m)
- Ethernet cable 6 ft. (1.8 m)
- User's Guide

Warranty

- Five year limited warranty; factory repair or replacement
- End-user support including online, fax-on-demand and live phone operators

3Com OfficeConnect Cable Modem External

Part No. 3CR29210

OfficeConnect products

For more information please refer to the following publications:

OfficeConnect Fast Ethernet PCI NIC data sheet
400440-002

OfficeConnect 10/100 LAN PC Card data sheet
400509-001

OfficeConnect Hubs and Switches data sheet
400317-008

HP JetDirect 300X OfficeConnect Print Server data sheet
400427-002

OfficeConnect ISDN LAN Modem data sheet
400396-005

OfficeConnect 56K LAN Modem* data sheet
400397-003

OfficeConnect 56K Business Modem data sheet
400473-002

OfficeConnect Fast Ethernet Networking Kit data sheet
400412-003

OfficeConnect Remote 511 and 531 Access Routers data sheet
400318-003

HP JetDirect 170X OfficeConnect External Print Server data sheet
400484-002

OfficeConnect Remote 840 SDSL Router data sheet
400508-001

*Available in North America only.

The 3Com OfficeConnect family

is an integrated networking system, allowing small businesses to share computer resources, access the Internet, and connect remote locations or users.

The products in this modular range are designed to work together.

As your business needs change, it's simple to add new users or advanced

functions. And with outstanding warranty and telephone support, the OfficeConnect product range provides a simple, reliable and affordable solution for today's information sharing needs.



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Contact your 3Com representative at 1 800 NET 3COM or www.3com.com for current product information.

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